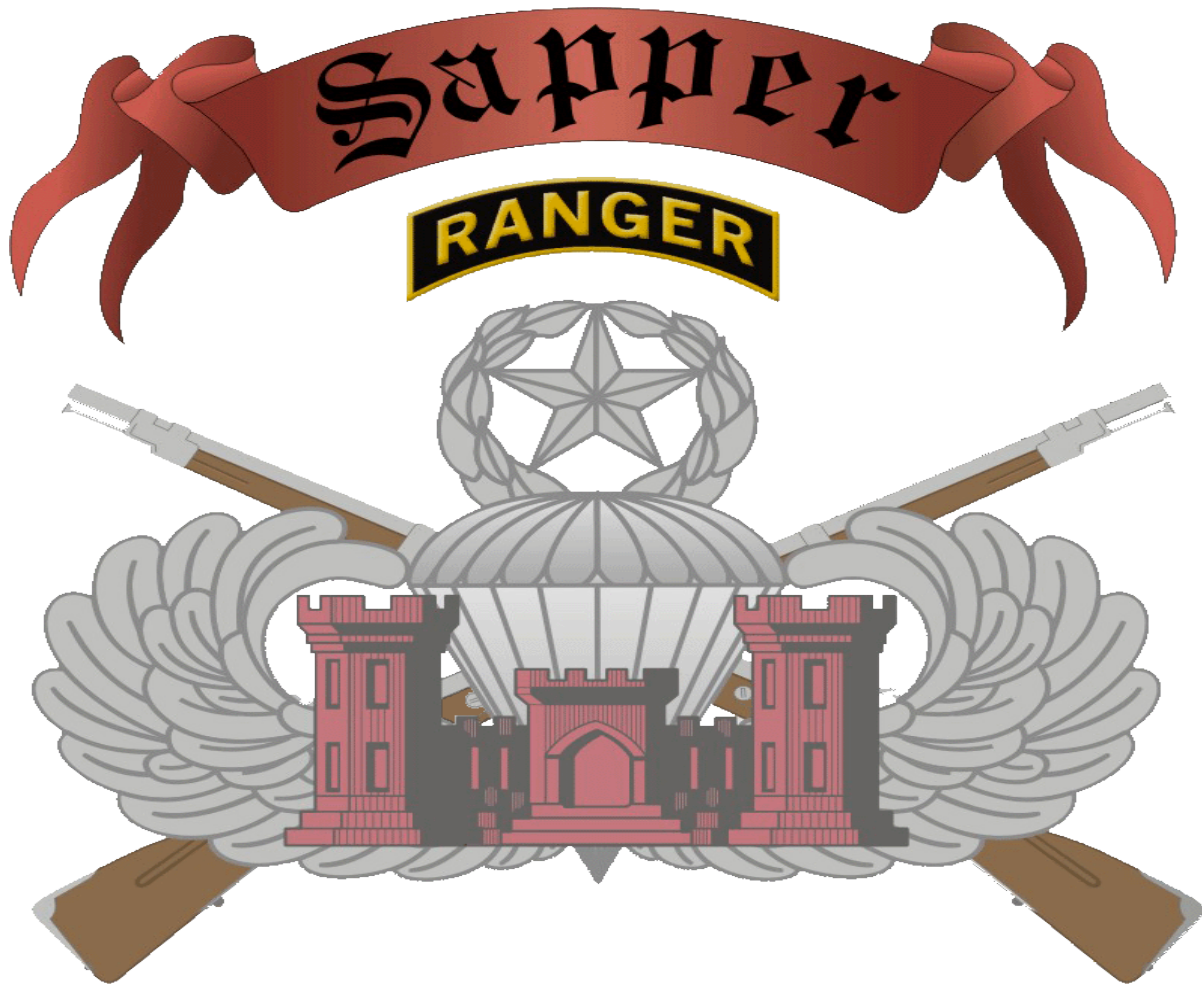


SAPPER LEADER COURSE PAMPHLET



SAPPER TRAINING COMPANY (STC)

169th ENGINEER BATTALION

1ST ENGINEER BRIGADE

FORT LEONARD WOOD, MISSOURI 65473

Updated: 27 OCT 17

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I. PREFACE

At the company level, mission success requires competent leaders capable of taking the initiative and acting independently in support of their higher commander's intent. Combat engineer leaders must be highly motivated, physically and mentally tough, and technically and tactically proficient in order to accomplish their missions and provide effective support to their maneuver elements. The Sapper Leader Course is designed to develop tough, hard, and knowledgeable leaders who are confident in their abilities and capable of operating under the harshest of conditions. The 28 day course is extremely fast paced and challenging. It will instill a high level of self-confidence and quickly enhance the cohesion within your unit. The primary focus of the Sapper Leader Course is troop leading procedures using dismounted combat patrolling as the teaching vehicle. The Sapper Leader Course is a leadership development school for combat engineers that teach skills critical to success on the battlefield. This pamphlet is designed to acquaint you with the Sapper Leader Course and the requirements for its successful completion.

The Sapper Leader Course is the premier leadership course for the Engineer Regiment. It trains confident and competent leaders to thoroughly plan and aggressively execute combat engineer missions. The training is challenging, but its rewards are great. Both individual Soldiers and units benefit from the training. Whether Sappers graduate or just complete the course, they return to home station with improved engineer and leadership skills which they can then pass on to their Soldiers.

There are two areas in which Soldiers must be proficient before attending the course; physical conditioning and the technical skills listed in section IX. Most of our attrition is due to inadequate physical conditioning and an inability to satisfactorily perform the aforementioned technical skills. A tough physical conditioning train-up as well as refresher training in the listed skills will improve performance and increase the Soldiers likelihood of graduation from the course.

II. HISTORY OF THE SAPPER ENGINEER

The term Sapper can be traced back as far as 1501 to the siege of Rouen during the French Wars. Sappers throughout time have proven their abilities to build and repair fortifications, execute field works, and reform the countryside with demolitions and heavy equipment to weaken the enemy and lead the infantry to victory on the battlefield.

On May 27, 1778, Congress authorized three companies of Sappers and Miners to receive instruction in erecting field works -- the first step toward technical education -- and to direct fatigue parties, repair damaged works and erect new ones. Recruitment continued for more than two years with the activation of the companies on August 2, 1780. Meanwhile, on March 11, 1779, Congress passed a resolution that formed the engineers of the Continental Army into the Corps of Engineers.

The Corps of Engineers and its companies of Sappers and Miners enjoyed their finest hour in October of 1781 at Yorktown where General Washington conducted a siege in the classical manner of Sebastian de Vauban, the great French master of siege craft. Thirteen engineer Officers of the combined French and American Armies performed crucial reconnaissance and with fifty men from the Sappers and Miners, planned and constructed field works. In addition, the Sappers and Miners assembled fortification materials, erected gun platforms, transported cannons and ammunition, and cleared the way for the decisive infantry assault on Redoubt 10. After the battle, General Washington cited Duportail, the first Chief of Engineers, for conduct which afforded "brilliant proofs of his military genius," and set the seal of his reputation.

Combat engineers in today's Army are required to demonstrate qualities similar to their Revolutionary War counterparts, and when they do, they proudly call themselves **SAPPERS**.

III. OVERVIEW AND ATTENDANCE

MISSION

The Sapper Leader Course prepares and evaluates Engineer Leaders serving as a member of a Combined Arms team through training in small unit tactics and Combat Engineer Battle Drills in a physically demanding, stressful, and austere environment.

SCOPE

The Sapper Leader Course is a demanding 28 day leadership development course for combat engineers that reinforces critical skills and teaches advanced techniques needed across the Army. This course is also designed to build esprit de corps by training Soldiers in troop leading procedures, demolitions (conventional and expedient), and mountaineering operations. The course culminates in an intense field training exercise that reinforces the use of the battle drills and specialized engineer techniques learned throughout the course.

TRAINING LOCATION

The Sapper Leader Course is located at Fort Leonard Wood, Missouri which is in the vicinity of the Mark Twain National Forrest and the Lake of the Ozarks.

PURPOSE

To train combat engineers in leadership skills, combat engineer and infantry battle drills, and specialized engineer and infantry techniques required to perform as members of a Combined Arms Task Force; to build unit cohesion and increase the confidence of the unit's leadership.

METHOD

The Sapper Leader Course is designed to train leaders from the squad level to the company level, (48 personnel per class). Training is conducted in a team building environment to build leadership skills, learn specialized engineer techniques, and perform battle drills necessary to perform the engineer missions of a Sapper Company. The course is also designed to build unit cohesion and esprit de corps by training the Soldiers in mobility, counter-mobility, and survivability tasks to include troop leading procedures, demolitions (conventional and expedient), mountaineering operations, aerial operations, airborne operations, foreign weapons, land navigation, waterborne operations, and contingency threat. The course culminates in an intense field training exercise that integrates the technical skills learned throughout the course in a tactical environment.

ELIGIBILITY

Army-Active, Reserve and National Guard Components:

12B, 12C and 12N - E4(P) through E7 (E4 Promotable must provide proof that they are in promotable status or gain an approved E4 rank waiver)

12A - O1 and O2

(O3 with approved rank waiver)

(E8 with approved rank waiver)

(E4 non-promotable with approved rank waiver)

Marine Corps- Active, Reserve and National Guard Components:

1371 - E4 through E7

1302 - O1 and O2

ABC foreign allies are also approved to attend

Documents required:

- Sapper, Ranger or Airborne physical (copy, not original)
 - Battalion Commander's Certification Letter (Template on the website)
 - 1610/Orders: The Sapper Training Company continues to receive numerous RFIs regarding 1610/Orders. ALL Sapper Candidates, EVEN IF THEY ARE PERMANENT PARTY AT FT LEONARD WOOD, are required to have 1610/Orders on day zero of the Course. If the Candidate is in ATRRS Reserve status, ATRRS Wait status, Walk-on status, or status is unknown by the Candidate, all are required to have 1610/Orders immediately at the start of the Course. Immediately at the start of the course is 0500 on the class start date. DD Form 1610 Travel Orders: Can be printed from DTS or formatted at Unit level for No cost moves. The nonmilitary form format printed from DTS is also acceptable. Travel Orders: Format 700 typed format, Format 282(traditionally ARNG), Format 410(traditionally TDY en-route), and Format 260(traditionally USAR) are all accepted Travel Order Formats.)
 - Records brief (ERB/ORB) dated within 30 Days of Class start date
 - DA 705 (PT Card) (w/ 5500 or 5501) that qualified individual for SLC at unit level.
- These documents will be used when a Candidate fails entry requirements. They will be staffed to the USAES Commandant's office, with the SM's BN CDR's Certification letter stating that the SM passed all qualification tasks at the unit, with our end of day entrance statistics.

Qualification tasks:**Day 0:**

- Physical Screening by Sapper Training Company's Medical Staff
- Required Documents Screening by Sapper Training Company's Operations Staff
- Sapper Physical Fitness Test (SPFT) - (PU, SU, & 2 Mile Run) - based on age and gender. Must meet or exceed a minimum total score of 230 points with no less than 70 points in each event

Day 1:

- 12 Mile Road March - within 3 hours with a 35lb ALICE/MOLLE. The minimum weight does not include six quarts of water, weapon, and load bearing equipment.

PREREQUISITES

All Sapper Leader Course students must meet the required standards of the Sapper Physical Fitness Test (SPFT), scoring a minimum total score of 230 points with no less than 70 points in each event and meet the Army height and weight standards IAW AR 600-9 for their age group. Also, complete the rigorous 12 Mile road march under the three hour time requirement with a 35 pound ruck/MOLLE, weapon, load bearing equipment and 6 quarts of water. The SPFT, Height/Weight and Road March are an entry requirement for the course. If a Soldier cannot pass all events, they will be denied enrollment even if they have a reserve slot in ATRRS. All Sapper Leader Course students must be proficient in the tasks listed in the back of this pamphlet.

COMBAT WATER SURVIVAL TEST (CWST)

All students must conduct Combat Water Survival Testing prior to arrival. Students must have their swimming ability identified (strong/weak/non-swimmer) on the BN CDR's proficiency certification memorandum. The CWST is administered IAW TC 21-21 Combat Water Survival Training. While passing

the CWST is not required for attendance, it is required to identify weak and non-swimmers. Additionally, a poncho raft swim in open water is a graded event during the course. Weak and non-swimmers will struggle with this event. Consequently, it is recommended that they practice swimming prior to attending the course. The CWST will not be conducted at the Sapper Leader Course. All students must have at least attempted the CWST before attending Sapper Leader Course.

ATTENDANCE

Individual course allocation requests must be submitted through the Army Training Requirements and Resources System (ATRRS). Walk-ons are accepted to all classes! All students should be in peak physical condition, be proficient in all 10 level tasks in this pamphlet, have all required documents, be able to meet all prerequisites and entrance requirements.

REENTRY INTO COURSE

Release from the Sapper Leader Course for misconduct or refusal to train requires a waiver from the first O-6 in the Soldier's chain of command for the Soldier to return to the course. The Soldier can return no earlier than six months after dismissal. Soldiers attempting to get into the course without the waiver will be denied enrollment and/or dropped from the course.

Medical drops may return to the course once cleared by a physician, and when their unit deems them physically ready to attend the course.

Effective April 2016, all recycle eligible students will be automatically recycled into the next Sapper class. There are only two authorized automatic recycle categories in the Sapper Leader Course, General Subjects Recycle, and Patrolling Recycle.

- a) **General Subjects Recycle:** Any first time General Subjects student who earns less than 700 points, but more than 600 points during general subjects phase, fails both opportunities to pass land navigation, or fails both opportunities to pass any written exam will become an automatic General Subjects Recycle. Or is recycled by the Sapper Command Team to try to prevent a negative 1059.
- b) **Patrolling Recycle:** Any first time Patrolling student that does not achieve at least a 50% GO rate while in graded positions will become an automatic Patrolling Recycle. They may be recycled by the Sapper Command Team to prevent a negative 1059.

Exception to Policy Requests: Sapper students who automatically recycle could be assigned to the Sapper Leader Course for up to 70 days to complete the recycle phases (two tries at General Subjects phase, and two tries at Patrolling phase). Home station Battalion Commanders may request an exception to policy (ETP) approved through the Sapper Leader Course to the 1st Engineer Brigade Commander forgoing their SM's eligibility to automatically recycle. All recycle ETPs must be approved prior to the report date of the class and included in the student's in processing packet on day zero.

IV. STUDENT ORIENTATION

GENERAL

The following information is intended to provide answers to typical questions posed by prospective Sapper Leader Course students.

The Sapper Leader Course is a demanding 28-day course designed to train leaders from the squad level to the company level, (35-48 students per class). Training is conducted in a team building environment in order to build leadership skills, learn specialized engineer techniques, and perform battle drills necessary to execute engineer missions. The course is organized into two phases: Phase I - General Subjects; Phase II - Patrolling

Phase I. This phase lasts 13 days. It includes general subjects such as:

- Physical training
- Medical techniques
- Expedient antennas
- Demolitions training (conventional and expedient)
- Urban Breaching
- Threat weapons/mines
- Land navigation
- Knots and rigging
- Air operations (aerial resupply and landing zone, pick-zone, and drop zone operations)
- Mountaineering
- Water operations (scout swimming, boat operations, river crossings, and helocasting techniques).

Phase II. This phase lasts for 15 days. It includes basic patrolling techniques and battle drills that place strong emphasis on troop-leading procedures, battle drills, planning for operations, and small-unit operations. It incorporates the technical skills learned in GS into a tactical environment. Training includes:

- Patrol organization and movement
- Intelligence
- Recon/Raid/Ambush
- Operation order
- Warning order
- MOUT operation
- Breaching Tenants
- Troop leading procedures
- 9 Day Field Training Exercise

FTX: This is a continuous 9 day field training exercise. Student leadership is rotated during different phases of the mission which requires students to perform in simulated combat situations to accomplish a variety of missions in a realistic scenario. Students are graded on their ability to apply the principles of patrolling to accomplish the mission. Missions conducted during the STX/FTX are a mix of engineer and infantry missions with a focus on the Engineer tasks (MOB/CMOB/SURV) required to accomplish the mission. Engineer specific missions include: bridge reconnaissance, bridge demolition, road craters, covert complex obstacle breach, urban reconnaissance, and field expedient demolitions.

TRAVEL

Incoming students should either arrange round trip transportation to and from Fort Leonard Wood; or fly into St. Louis and arrange transportation to and from Fort Leonard Wood. There are only two commercial flights daily to and from Waynesville Regional Airport, Fort Leonard Wood. These flights only carry 19 passengers and have limited baggage capability.

Students may take a POV to the course. However, once the course starts they will not have access to the vehicle and are liable for anything left in the vehicle during the 28-day course. It is highly discouraged that units authorize rental cars to students while on TDY to the course. Units should also make authorizations for early return on the students travel orders in case they must return to the home duty station prior to the graduation date. These students may include medical drops and emergency leaves.

MAILING ADDRESS

Sapper Leader Course students can use the following mailing address:

Rank, Name,
741 Iowa Ave
ATTN: Sapper Leader Course, Class # _____
Sapper Leader Course, 169th Engineer Battalion
Fort Leonard Wood, Missouri 65473-6400

EMERGENCY PHONE CONTACT

The telephone number for emergency contact during duty hours (0900-1700 CST Mon-Fri) is the Sapper OPS at (573)596-0823. After duty hours the 1st Engineer Brigade SDO telephone number is (573)-596-0222. The installation Defense Switching Network (DSN) prefix is 581.

LEAVE

Only emergency leave will be granted, as determined by the unit commander, and will result in administrative release from the course. DA Form 31 and a Red Cross message (if applicable) must be sent to Sapper OPS before student will be released.

REPORTING

All incoming students must report to Building 6021, Sapper Training compound at TA-147, Fort Leonard Wood, Missouri and sign-in on the Thursday prior to the course start date. Then, they must report to TA-106 NLT 0500 hours with White Sheet in hand on the Friday of the course start date. Building 6021 is located 3 miles from the main gate of the post. Take the first right (Indiana Avenue) after entering post and remain on Indiana Avenue for approximately three miles until you reach TA-147, Cedar Falls. TA-106 is the PT Bubble located on Indiana Avenue just north of the Sapper Leader Course compound. For further information, the Visitor Information building is located at the main entrance to post. It is highly recommended that students arrive on the Thursday before the course start date.

Sapper Training Company will not provide transportation to and from the airport.

Students should report to the Sapper Leader Course NET 1300 and NLT 2100 on their report date (Thursday). Due to overlapping class schedule we can no longer accommodate incoming students reporting earlier than 1300 on their report date.

Incoming Sapper Leader Course students will have in their possession:

- All equipment on the packing list
- DA Form 1610/TAD orders, include statement of early return in event of drop
- Ranger/Sapper/Airborne qualified Physical Dated within 18 months of course start
- Battalion Commanders Certification Letter signed by the first LTC in your COC
- ERB/ORB dated within 30 days of class start date
- DA 705 (PT Card) (w/ 5500/5501)

MEDICAL REQUIREMENTS

A COPY of the physical examination must accompany the student to the course, all three pages for the 2807, 2808 and supporting documents. The exam must be dated within 18 months of the report date, and state the applicant is medically qualified to attend. The exam record must include blood work (CBC/DIFF and UA Kidney function). Your medical facility may refer to this as “Ranger, Sapper, and Airborne Physical.” Dental records must include a memorandum from the dentist stating a full mouth x-ray/panorex exists at home station and is available by contacting the home unit, if requested or block 83a is signed and stamped by a Dentist.

All students are required to hand-carry (recommend a copy not original) physical and a panorex dental memorandum to the course. If block 83a is signed and stamped by a Dentist on the physical, a panorex dental memorandum is not needed. Records are turned in to the Senior Medic during in-processing. Medical questions can be answered by calling the course medic prior to the report date at 573-563-3201. Students who arrive with incomplete physicals will be denied entry into the course.

MEDICATION

Per AR 40-501: The Standards of Medical Fitness, Chapter 5, “individuals who are under treatment with any mood-ameliorating, tranquillizing, or ataraxic drugs for hypertension, angina pectoris, nervous tension, instability, insomnia, and so forth, and for a period of 4 weeks after the drugs has been discontinued” and students who show “Evidence of excessive anxiety, tenseness, or emotional instability. Fear of dark or enclosed spaces, fear of heights” are denied enrollment to the Sapper Leader Course.

No supplements are authorized at the Sapper Leader Course. It is recommended that you stop taking supplements two weeks prior to arrival so that it gets out of your system. Failure to do so could cause you to become a medical drop from the course and put you at greater risk of becoming a hot/cold weather casualty.

MEDICAL WAIVER REQUEST

In order to request a medical waiver you must forward a copy of your completed physical, with disqualifying factors annotated, to the course inbox with a waiver recommendation from your provider in block 78. Once received your physical and waiver request will be vetted by the Course physician and approved or denied by the Commander.

If you PCM is not comfortable recommending a waiver in block 78 your waiver will not be granted.

BILLETING

All personnel are billeted in the 800 area in open bay metal buildings located 1/2 mile from the Sapper Leader Course classroom. During the last 14 days of the course, students live and operate in a field environment.

MEALS

All students eat in a dining facility or mermitees when not participating in field operations at no cost to the

student.

PAY

The parent unit Finance & Accounting Office administers all financial matters to include monthly pay and travel pay. Only emergencies will be handled at Fort Leonard Wood. Students need only bring sufficient funds to defray expenses for incidentals and personal needs (~\$100.00). Cash or traveler's checks are recommended, time will only be given to use an ATM at the end of the course. Students are required to pay for any government equipment lost or damaged during the course. Statements of charges and cash collection vouchers are accepted.

LAUNDRY SERVICES

Washers, dryers, and hand washing facilities are available at the Sapper Leader Course for student use at no charge.

TRAINING DAY

The normal training day is from 0500 to 2200 hours, seven days a week. The last 14 days are spent in the field conducting 24 hour operations.

UNIFORM AND APPEARANCE

The uniform and appearance of all personnel must comply with AR 670-1. There will not be an opportunity to get a haircut during the course; Soldiers must arrive at in processing with a fresh haircut that will not become out of regulation for the duration of the course. All uniforms must be in serviceable condition. "Lead By Example".

PHYSICAL FITNESS

All personnel must arrive in excellent physical condition. Physical Training is conducted each training day. This will be followed by 14 hours of rigorous training that is as demanding as the PT session. Physically weak students are at a higher risk of failing the course due to the likelihood of injury. Feet, knee, and ankle injuries are prevalent due to extensive walking. Training before arriving at the Sapper Leader Course should be conducted with this in mind.

Physical Condition: All commanders must ensure that applicants are in top physical condition when reporting to the Sapper Leader Course. Applicants should concentrate on improving upper body strength and foot marching in properly fitted boots, with a full pack (40 lbs) for distances of at least 12 miles over varied terrain (i.e. steep grades) in three hours or less. Historically, those scoring less than a 230 on the APFT graduate at half the rate of personnel who score above 275 and are 7 times more likely to be medically dropped from the course.

SAPPER PHYSICAL FITNESS TEST

The cadre administers the Sapper Physical Fitness Test (SPFT) and conducts height and weight screening to all students. Students must pass the SPFT for their age group (IAW FM 7-22) by achieving 70 in each event **and an overall score of 230**. Soldiers must meet the Army height and weight standards IAW AR 600-9.

PHYSICAL FITNESS UNIFORM

Summer: (May - September): The PT uniform is the Army black shirt, black shorts, white or black socks, and athletic shoes IAW AR 670-1 with road guard vest (provided) and flashlight/ and or chemlight. No unit distinctive T-shirts are authorized. Marines will wear their uniform equivalent; shorts, t-shirt, athletic shoes, and white socks.

Winter: (October - April): The PT uniform is the Army black jacket, black pants, black fleece cap, black gloves, green wool glove liners in addition to the Summer PT uniform IAW AR 670-1 with road guard vest and flashlight/ and or chemlight. Marines will wear their uniform equivalent; summer uniform with sweat shirt, sweat pants, fleece cap, and green gloves.

DAILY PHYSICAL TRAINING

During daily physical training students must earn points by completing the callisthenic exercises and distance run with the cadre leader for that day. Students who exhibit poor physical conditioning or do not complete the run will not receive the allocated points for that PT session.

A typical physical training session during the first 2 weeks may include:

- Several exercises working both upper and lower body to muscle failure.
- Distance run of 3 - 7 miles, at an **8-minute per mile pace**. Runs are conducted in formation.
- Foot March: All personnel will complete a 12-mile foot march, with weapon, LBE/FLC/LBV/TAPS and 35 pound pack not including water weight within 3 hours.

LEADERSHIP

The Sapper Leader Course develops the leadership skills of the students by requiring them to perform effectively as small unit leaders in a realistic tactical environment. During the first phase, the leadership positions are rotated daily. During Phase II, the leadership positions are rotated daily and after each mission.

Throughout the course, the "buddy system" is used to instill a spirit of teamwork and cooperation. Each student is responsible for knowing his buddy's location and watching out for his or her welfare.

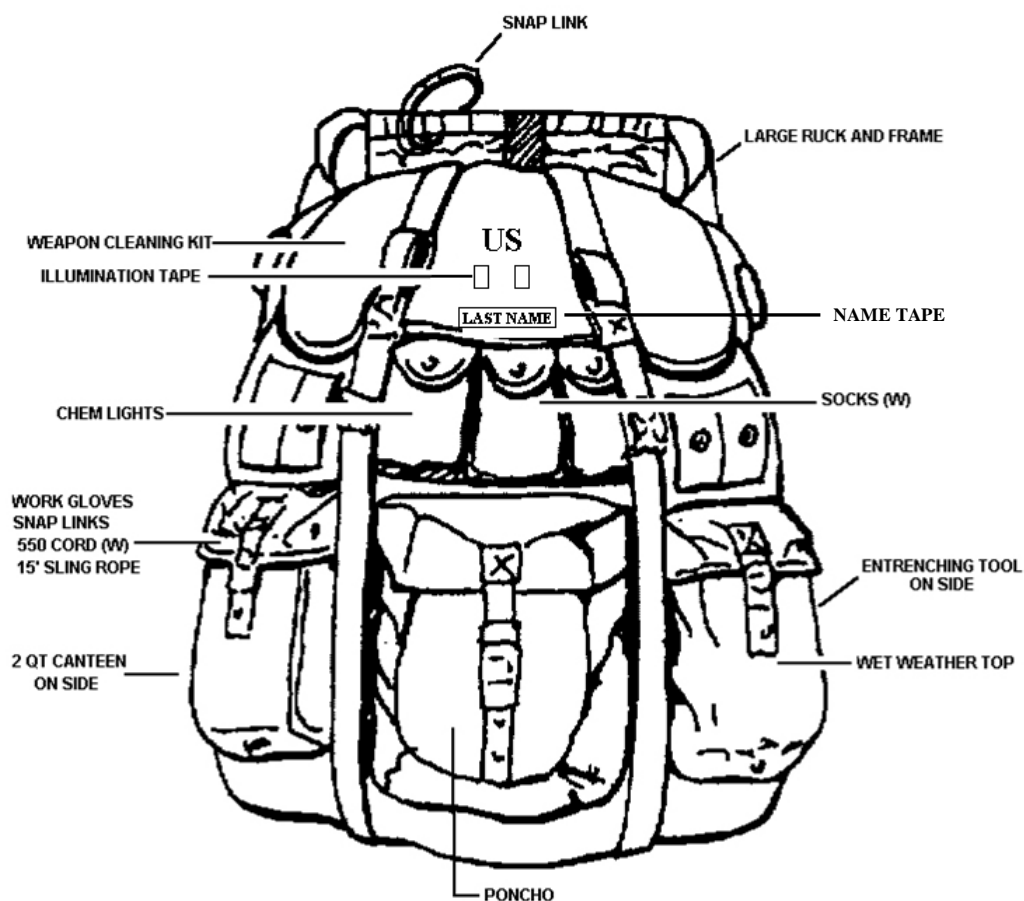
Each student will be evaluated a minimum of two times on leadership during patrolling and must receive a "GO" in 50% of these evaluations.

The Sapper Leader Course develops hardened combat engineers that are better prepared to fight on today's modern battlefield with increased leadership skills.

V. EQUIPMENT AND HEADGEAR CONFIGURATIONS

ALICE PACK

- E-Tool cover & 2 Qt canteen cover are secured to the ALICE pack using gutted 550-cord tied with a square knot and two overhands.
- The E-Tool and 2 Qt canteen are further secured with a Sapper assist cord. Each item is secured with an end of the line bowline with overhand safety and the other end of the assist cord is secured to the ALICE pack itself with an end of the line bowline and overhand safety.



ON TOP OF WATERPROOF BAG

Kevlar/ACU
Mission Essential Equipment
MRE's
100 MPH Tape (W)
Electrical Tape (W)

IN WATERPROOF BAG

Patrol Cap
ACU/Cami Pants
ACU/Cami Shirt
T-Shirt
Black Gloves
Poncho Liner
Combat Boots
Socks
Poly Pro Top (Winter)
Cold Weather Gloves (Winter)
Fleece Cap (Winter)

MAP POCKET

Socks (W)
Camouflage Stick
Insect Repellent
Razor
Soap
Towel
Protractor
Map Markers
Calculator (W)

MOLLE PACK

- E-Tool cover & 2 Qt canteen cover are secured to the MOLLE pack using gutted 550-cord tied with a square knot and two overhands.
- The E-Tool and the 2 Qt canteen are further secured with a Sapper assist cord. Each item is secured with an end of the line bowline with overhand safety and the other end of the assist cord is secured to the MOLLE frame with an end of the line bowline and overhand safety.
- The Marine ILBE will be configured in the same manner except, the gear in the side sustainment pouches will be placed in the top flap pouch.



ON TOP OF WATERPROOF BAG	IN WATERPROOF BAG	MAP POCKET	LEFT SIDE SUSTAINMENT POUCH	RIGHT SIDE SUSTAINMENT POUCH
Kevlar/ ACH	Patrol Cap	Socks (W)	Rappel Gloves (W)	Socks (W)
Mission Essential Equipment	ACU/Cami Pants	Camouflage Stick	Carabineer (W)	Chemlights
MRE's	ACU/Cami Shirt	Insect Repellent	15' Sling Rope (W)	Wet Weather Top
	T-Shirt	Razor	6' 550 Cord (W)	Poncho/Tarp
	Black Gloves	Soap	100 MPH Tape (W)	
	Poncho Liner	Towel	Electrical Tape (W)	
	Combat Boots	Protractor		
	Wool Socks	Map Markers		
	Poly Pro Top (Winter)	Calculator (W)		
	Cold Weather Gloves			
	(Winter)			
	Fleece Cap (Winter)			

- All items worn on the LBE/FLC/LBV/TAPS are secured either with MOLLE webbing or with gutted 550-cord tied with a square knot & two overhand knots (i.e. first aid pouch, ammo pouches, canteen covers, etc.). The LBE/FLC/LBV/TAPS needs to be configured to carry at a minimum, six magazines, two canteen pouches, IFAK, NVG pouch, and compass pouch. Morale patches are not authorized.
- Items such as knives, canteen cup, canteens, and flashlight have a Sapper assist cord fastened to the item with an end of the line bowline safetied with an overhand knot. The other end of the gutted 550-cord is tied to the web belt with an end of the line bowline safetied with an overhand knot.



Normal
Student



Weak
Swimmer



Previous Cold /
Heat Injury



Weak Swimmer/
Previous Cold /
Heat Injury

- Soft cap/Cover with name tape and illuminous tape 1" x 1/2" with at least 12 independent stitches on each piece of illuminous tape.

NOTES: ALL ITEMS WILL BE BROUGHT WITH YOU FROM HOME STATION.

No CIF facilities are available for the use of Sapper students. It is suggested that the Soldier bring serviceable equipment and gear sufficient enough to last the duration of the course. Most commonly damaged items include ALICE/MOLLE packs and frames, shoulder straps, compasses, ponchos, headlamps, gloves, and 2 quart canteens.

***Winter items must be brought from mid-August to 30 April. (potential to recycle and stay up to 70 days could result in you being recycled into a winter class)**

VI. MANDATORY TRAINING

Successful completion of the following training is a prerequisite for graduation:

Day/Night Land Navigation Course:	GO/NO GO **
Demolitions Written Exam:	GO/NO GO **
Air Operations written examination	GO/NO GO **
Patrolling Examination	GO/NO GO **
Leadership Grades: (Receive go on 50 percent of grades)	GO/NO GO ***
Overall Points: available)	GO/NO GO (Receive 70% of points)
Participate in all training: (Students can only miss 24 hours of training in 28 days of training)	GO/NO GO ****

NOTES:

*Not meeting the height and weight standards, failing the SPFT or Road March will result in denial of enrollment to the course and return to the unit's home station regardless of ATRRS reservation.

**One re-test authorized.

***Leadership evaluations will be done IAW the Sapper Leader Course Patrolling Evaluation Book and recorded on the Leader Evaluation Form.

****Individuals who refuse to participate in any training event will be counseled, removed from all training, receive a negative 1059 AER, and remain at Sapper Leader Course until out processed.

VII. INDIVIDUAL SOLDIER TASK PROFICIENCY

Students must be proficient in the following tasks prior to attending the Sapper Leader Course. By clicking on the hyperlink you will be transferred to the Combined Arms Training Strategies (CATS) page of the Army Training Network (ATN) website. On that page you will be able to search for tasks by title or by the task number.

TITLE (TASK NUMBER)

[Detect Explosive-Hazard Indicators by Visual Means \(052-192-1269\)](#)

[Construct Demolition Firing Systems \(052-193-1310\)](#)

[Prime Military Explosives \(052-193-1311\)](#)

[Construct Demolition Initiating Systems \(052-193-1312\)](#)

[Identify the Characteristics of Military Demolitions and Explosives \(052-193-1313\)](#)

[Place Steel-Cutting Charges \(052-193-1317\)](#)

[Place Breaching Charges \(052-193-1318\)](#)

[Place Cratering Charges \(052-193-2018\)](#)

[Move as a Member of a Team \(071-COM-0501\)](#)

[Operate Night Vision Device, AN/PVS-14 \(071-706-0001\)](#)

[Maintain an M240B Machine Gun \(071-025-0001\)](#)

[Perform a Function Check on an M240B Machine Gun \(071-025-0002\)](#)

[Maintain an M249 Machine Gun \(071-COM-4025\)](#)

[Perform a Function Check on an M249 Machine Gun \(071-COM-4026\)](#)

[Employ an M18A1 Claymore Mine \(071-325-4427\)](#)

[Initiate a 9-Line Medevac Request \(081-833-0283\)](#)

[Analyze Terrain \(071-331-0820\)](#)

[Determine the Elevation of a Point on the Ground Using a Map \(071-329-1004\)](#)

[Convert Azimuths \(071-329-1009\)](#)

[Orient a Map Using an M2 Compass \(071-520-0001\)](#)

[Locate an Unknown Point on a Map and on the Ground by Intersection \(071-329-1014\)](#)

[Locate an Unknown Point on a Map and on the Ground by Resection \(071-329-1015\)](#)

[Determine the Grid Coordinates of a Point on a Military Map \(071-COM-1002\)](#)

[Operate the RT1523E SINCGARS ASIP Radio \(171-300-0063\)](#)

NOTE: In addition to proficiency in these Soldier tasks, all Soldiers must be proficient in all Tasks in STP 5-12B1-SM: MOS 12B, Combat Engineer Skill Level 1

The following FM's and STP's will be helpful to students preparing to attend the course:

Overall Course:

- STP 5-12B1-SM: MOS 12B, Combat Engineer Skill Level 1
- STP 5-12B24-SM-TG: MOS 12B, Combat Engineer Skill Levels 2/3/4
- STP 21-1-SMCT Soldier's Manual of Common Tasks Level 1
- STP 21-24-SMCT Soldier's Manual of Common Tasks Levels 2/3/4
- TM 3-34.85: Engineer Field Data
- FM 7-22: Army Physical Readiness Training

General Subjects:

- Fieldcraft:
 - TC 4-02.1: First Aid
- Threat:
 - ATP 3-90.37: Countering Improvised Explosive Defeat
 - ATP 3-34.20: Countering Explosive Hazards
- Air Operations:
 - FM 3-21.38: Pathfinder Operations
 - TM 4-48.10: Multi-Service Helicopter Sling Load Single Point Load Rigging
- Mountaineering:
 - TC 3-97.61: Military Mountaineering
 - TC 21-24: Rappelling
- Demolitions:
 - TM 3-34.82: Explosives and Demolitions

Patrolling:

- ADP 3-90: Offensive and Defensive Tactics
- ADP 5-0: The Operations Process
- ATP 3-90.8: Combined Arms Counter-mobility Operations
- ATTP 3-90.4: Combined Arms Mobility
- ATP 3-34.81: Engineer Reconnaissance
- ATP 3-21.8: Infantry Platoon and Squad
- ATP 3-09.30: Observed Fire
- FM 3-22.9, FM 3-22.68
- TM 3-34.82: Explosives and Demolitions